



FACT SHEET



JNTF FACT SHEET 99-024



Cheyenne Mountain Training System(CMTS)

MISSION

The mission of Cheyenne Mountain Training System (CMTS) is to enhance the Warfighters capability with a high-fidelity standalone Tactical Warning / Attack Assessment Training System that will operationally replicate the Command, Missile, Air, and Space Crew Centers within Cheyenne Mountain (CM) and provide a facility to exercise, test, and simulate various CM elements.

BACKGROUND

The Cheyenne Mountain Training System is a standalone functional emulation and simulated operational environment used to train Cheyenne Mountain operators for the command, air defense, missile warning, and space control centers.



Command Training Center

It is a dedicated facility, encompassing approximately 20,961 sq. ft. of floor space, which incorporates functional versions of the Cheyenne Mountain Air Station (CMAS) operations centers and ancillary staff and functions. The CMTS project enhances the capability of the North American Aerospace Defense (NORAD) to conduct qualification training and accommodate recurring training for crews assigned to CMAS.



Missile Training Center

Central to the CMTS are the four training centers that replicate the operation in CMAS in hardware, software, and communications. The training centers closely resemble the physical appearance and arrangement of their corresponding CMAS operations centers and provide the capability to conduct realistic, off-line, hands-on, training, exercises and tests on the same type of equipment as that is used in their respective centers.

The four operational centers, Missile Warning Center (MWC), Command Center (CC), Air Defense Operations Center (ADOC), and the Space Surveillance Center (SSC), are replicated

in the CMTS facility. The replicated centers: Missile Training Center (MTC), Command Training Center (CTC), Air Training Center (ATC), and Space Training Center (STC), were designed and created with the same look and feel of their real-world counterparts. Once a trainee completes training in the CMTS, the transition to the operational centers should be smooth, minimizing the time it takes to adapt to the operational environment.



Air Training Center

CAPABILITIES

This realistic CMTS training environment includes a wide variety of computing resources that emulate Cheyenne Mountain. It includes the fully functional Command Center Processing and Display System - Replacement (CCPDS-R), Processing and Display Subsystem (PDS), Granite Sentry and SPADOC 4C hardware and operational software. CMTS also includes Scenario Generation and Simulation Control (SG/SC) software. These capabilities are used to produce and control simulated input data and for recording of the training, exercise, or test data.

This realistic environment not only supports crew training but provides the ideal setting for C2 analysis for future systems. The National Missile Defense (NMD) development team has used CMTS for CONOPS and C2 analysis. The analysis is accomplished in a realistic setting, with operationally ready crews, and with the support of expert trainers. This affords the analysts with an environment that the future system must interface/integrate with while providing the user and training community the opportunity to learn and influence the development of their future systems.

LOCATION

The decision to locate the CMTS at the Joint National Test Facility was based on mission need and availability of secure facilities designed to support computer operations within a TEMPEST shield, and the capability of the JNTF personnel to assist in hosting and providing development activities in a rapid and effective manner. Synergism between CMTS and BMDO/JNTF projects will occur on a scheduled basis.

THE WAY AHEAD

Air Force Space Command is responsible for keeping the Cheyenne Mountain Training System current with CMAS. Upgrades to the real-world systems will be replicated in CMTS to keep the training environment as up to date for the students as possible.



Simulation Control Room

AVAILABILITY

If you would like more information on the capabilities and successes of the CMTS please call:

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